

CLAIMS

I Claim:

1 1. A method for purifying fluid within a reflection optical switch system
2 comprising:

3 placing gettering structures within a chamber within the reflection optical
4 switch system, the gettering structures including heating components which
5 when actuated attract impurities; and,

6 turning on the heating components within the gettering structures to
7 getter out impurities from fluid within the chamber.

1 2. A method as in claim 1 wherein placing gettering structures includes
2 placing heating components around filament holes through which vapor enters
3 the chamber from a reservoir.

1 3. A method as in claim 1 wherein placing gettering structures includes
2 placing heating components on pillars within filament holes through which
3 vapor enters the chamber from a reservoir.

1 4. A method as in claim 1 wherein placing gettering structures includes
2 placing structures that are optically accessible from outside the chamber.

1 5. A method as in claim 1 wherein placing gettering structures includes
2 placing a plurality of coupon structures that are optically accessible from outside

3 the chamber, the plurality of coupon structures including coupon structures of
4 different sizes and composed of different materials so as to target different
5 materials for gettering.

1 6. A method as in claim 1 wherein placing gettering structures includes
2 placing structures that are used to generate a voltage differential across a gap of
3 predetermined size.

1 7. A reflection optical switch system comprising:
2 a chamber that stores fluid; and,
3 gettering structures within the chamber, the gettering structures
4 including heating components which when actuated getter impurities from the
5 fluid stored in the chamber.

1 8. A reflection optical switch system as in claim 7 wherein the gettering
2 structures include heating components placed around filament holes through
3 which vapor enters the chamber from a reservoir.

1 9. A reflection optical switch system as in claim 7 wherein the gettering
2 structures include heating components placed on pillars within filament holes
3 through which vapor enters the chamber from a reservoir.

1 10. A reflection optical switch system as in claim 7 wherein the gettering
2 structures include structures that are optically accessible from outside the
3 chamber.

1 11. A reflection optical switch system as in claim 7 wherein the gettering
2 structures include a plurality of coupon structures that are optically accessible
3 from outside the chamber, the plurality of coupon structures including coupon
4 structures of different sizes and composed of different materials so as to target
5 different materials for gettering.

1 12. A reflection optical switch system as in claim 7 wherein the gettering
2 structures include structures that are used to generate a voltage differential
3 across a gap of predetermined size.

1 13. A reflection optical switch system as in claim 7 wherein the gettering
2 structures include bridge structures.

1 14. A reflection optical switch system comprising:
2 chamber means for storing fluid; and,
3 gettering means, located within the chamber, for heating and gettering
4 the fluid stored in the chamber means.

1 15. A reflection optical switch system as in claim 14 wherein the gettering
2 means includes heating components placed around filament holes through
3 which vapor enters the chamber from a reservoir.

1 16. A reflection optical switch system as in claim 14 wherein the gettering
2 means includes heating components placed on pillars within filament holes
3 through which vapor enters the chamber from a reservoir.

1 17. A reflection optical switch system as in claim 14 wherein the gettering
2 means includes gettering structures that are optically accessible from outside the
3 chamber.

1 18. A reflection optical switch system as in claim 14 wherein the gettering
2 means includes a plurality of coupon structures that are optically accessible from
3 outside the chamber, the plurality of coupon structures including coupon
4 structures of different sizes and composed of different materials so as to target
5 different materials for gettering.

1 19. A reflection optical switch system as in claim 14 wherein the gettering
2 means include bridge structures.

1 20. A reflection optical switch system as in claim 14 wherein the gettering
2 means includes structures that are used to generate a voltage differential across a
3 gap of predetermined size.